

INTERNATIONAL SEARCH REPORT

International Application No
PC 03/06913

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B21C47/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B21C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 332 155 A (PARISEAU DAVID L) 1 June 1982 (1982-06-01) column 2, line 40 - column 3, line 8; figures	1
A	US 4 074 553 A (WOODROW HAROLD E) 21 February 1978 (1978-02-21) column 2, line 26 - column 3, line 27 column 3, line 48 - column 4, line 2; claim 1; figures	1
A	US 3 669 377 A (GILVAR MARTIN ET AL) 13 June 1972 (1972-06-13) column 2, line 4 - line 19; figures	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

26 November 2003

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03/12/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 242 892 A (WYKES ROBERT D ET AL) 6 January 1981 (1981-01-06) column 2, line 51 - column 3, line 6; figures	1
A	----- PATENT ABSTRACTS OF JAPAN vol. 013, no. 360 (M-858), 11 August 1989 (1989-08-11) -& JP 01 118330 A (AICHI STEEL WORKS LTD), 10 May 1989 (1989-05-10) abstract	1
A	----- PATENT ABSTRACTS OF JAPAN vol. 013, no. 118 (M-806), 23 March 1989 (1989-03-23) -& JP 63 295014 A (NIPPON STEEL CORP; OTHERS: 01), 1 December 1988 (1988-12-01) abstract	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

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US 4074553	A	21-02-1978	CA 1062053 A1 DE 2750888 A1 FR 2375923 A1 IT 1090832 B JP 53085750 A SE 7712664 A	11-09-1979 06-07-1978 28-07-1978 26-06-1985 28-07-1978 04-07-1978
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